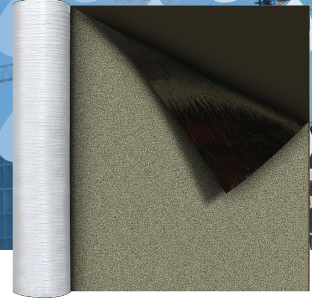


PetriProof Membran

ELASTOMERIC BITUMEN-BASED SPECIAL WATERPROOFING MEMBRANES

- Provides positive insulation opportunities under the foundation and in blind formwork walls.
- Prevents lateral water movement and leakage.
- Quick and easy to apply. Joints are self-adhesive.
- Resistant to water pressure up to 11.5 Bar.
- Does not require protective concrete.
- Easy to clean.
- Not affected by hot/cold phase transitions.
- Saltwater resistant.
- Not affected by ground settlement.



PRODUCT

WHERE TO USE

- It is specially designed for foundation and blind formwork concrete walls that remain underground.

GENERAL FEATURES

Petri Proof Membrane system provides a professional waterproofing solution for deep foundations and single-sided walls. By ensuring complete adhesion to the structural reinforced concrete element, it prevents potential water migration. The waterproofing membrane remains inseparable from the reinforced concrete element during ground settlement. It does not require protective concrete, thus saving both cost and time. Petri Proof Membrane system

is also an ideal solution for sloped surfaces where protective concrete cannot be poured.

STANDARDS AND DOCUMENTS

CE

PACKAGING

- Membranes with thicknesses of 3, 3.5, and 4 mm are produced in rolls 1 m wide and 10 m long, while the 4.5 mm membrane is produced in rolls 1 m wide and 8 m long.
- Each pallet contains 23 rolls of PetriProof Membran.

STORAGE

- Bituminous membranes should be stored vertically in enclosed areas.
- Avoid stacking pallets on top of each other; they should be stored in a single layer.
- They should be protected from direct sunlight and sudden temperature changes.

APPLICATION PROCEDURE

Under-Foundation Application

Petri Proof Membrane is rolled out over continuous and complete concrete, and self-adhesive lateral joints are attached. The overlap is 10 cm.

Blind Formwork Curtain Application

Petri Proof Membrane is adhered to the drainage sheet pre-installed on the formwork surface, which is designed to be sturdy and withstand concrete pressure. The overlap is 10 cm. The use of a heat gun is recommended for applications below +15°C

APPLICATION

- The membrane is laid on the base.
- Self-adhesive joints are aligned.
- At temperatures below +15°C, the use of a heat gun is recommended for the joint. The joint protective tapes are removed.
- The joints are glued and rolled over with a pressure roller.
- Final checks are performed on the membrane.
- The rebar tying process begins before the protective concrete is poured.

SYSTEMS USED IN APPLICATIONS

PetriProof Membrane H (Horizontal Application) 3.5 and 4.5mm

An S.B.S.-based waterproofing membrane used in foundation insulation, applied before concrete and providing complete and permanent adhesion to the structural concrete poured over it.

PetriProof Membrane V (Vertical Application) 3.0 and 3.5mm

A self-adhesive SBS-based waterproofing membrane used for waterproofing blind formwork walls, applied before concrete placement, and capable of providing complete and permanent adhesion to the structural concrete poured over it. kalıcı bir yapışma sağlayabilen kendinden yapışkanlı S.B.S. esaslı su yalıtım örtüsüdür.

SAFETY INSTRUCTIONS

- Bituminous membranes should not be used in winter months without being conditioned for 24 hours at temperatures above +5 degrees Celsius.
- Care should be taken to ensure that the application area is free of dust, mud, etc., and that the surface is not damp or wet.

TECHNICAL CHARACTERISTICS

PetriProof Membran D 3 MM

TEST	EXPERIMENTAL METHOD / CLASSIFICATION	DECLARED VALUES	UNIT	TOLERANCE
Visual Defects	EN 1850-1	No visual defects	-	No visual defects
Length	EN 1848-1	10	m	min (-0,03)
Width	EN 1848-1	1	m	min (-0,02)
Thickness	EN 1849-1	3	mm	(+/-) 0,2
Watertightness	EN 1928 (Metod-B 60 kPa)	Successful	kPa	Successful
Flexibility at Low Temperature	EN 1109	-20	°C	min
Tensile Strength (Transverse)	EN 12311-1	400	N/50mm	(-%10, +%50)
Tensile Strength (Longitudinal)	EN 12311-1	600	N/50mm	(-%10, +%50)
Elongation at Break (Transverse)	EN 12311-1	30	%	(-5, +20)
Elongation at Break (Longitudinal)	EN 12311-1	30	%	(-5, +20)
Flow at High Temperatures	EN 1110	100	°C	min
Deviation from the Direction	EN 1848-1	-	mm	Successful
Resistance to Static Load	EN 12730	15	kg	min
Impact Resistance	EN 12691 (Metod-A)	1000	mm	min
Tear Resistance (Transverse)	EN 12310-1	200	N	(+/-) %50
Tear Resistance (Longitudinal)	EN 12310-1	200	N	(+/-) %50
Bending Shear Resistance	EN 12317-1	500	N/50mm	(+/-) %50
Reaction to Fire	EN 13501-1	E	-	E
Dangerous Substances	-	-	-	Not available
Watertightness after Stability Test	EN 1296 - EN 1928	Successful	°C	Successful

PetriProof Membran Y 3,5 MM

TEST	EXPERIMENTAL METHOD / CLASSIFICATION	DECLARED VALUES	UNIT	TOLERANCE
Visual Defects	EN 1850-1	No visual defects	-	No visual defects
Length	EN 1848-1	10	m	min (-0,03)
Width	EN 1848-1	1	m	min (-0,02)
Thickness	EN 1849-1	3,5	mm	(+/-) 0,2
Watertightness	EN 1928 (Metod-B 60 kPa)	Successful	kPa	Successful
Flexibility at Low Temperature	EN 1109	-20	°C	min
Tensile Strength (Transverse)	EN 12311-1	600	N/50mm	(-%10, +%50)
Tensile Strength (Longitudinal)	EN 12311-1	800	N/50mm	(-%10, +%50)
Elongation at Break (Transverse)	EN 12311-1	45	%	(-5, +20)
Elongation at Break (Longitudinal)	EN 12311-1	45	%	(-5, +20)
Flow at High Temperatures	EN 1110	100	°C	min
Deviation from the Direction	EN 1848-1	-	mm	Successful
Resistance to Static Load	EN 12730	15	kg	min
Impact Resistance	EN 12691 (Metod-A)	1000	mm	min
Tear Resistance (Transverse)	EN 12310-1	250	N	(+/-) %50
Tear Resistance (Longitudinal)	EN 12310-1	250	N	(+/-) %50
Bending Shear Resistance	EN 12317-1	580	N/50mm	(+/-) %50
Reaction to Fire	EN 13501-1	E	-	E
Dangerous Substances	-	-	-	Not available
Watertightness after Stability Test	EN 1296 - EN 1928	Successful	°C	Successful

PRODUCT PERFORMANCE

Note: Technical values and application instructions are valid under ambient temperature of 23OC with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.



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Genel Merkez
Koramic Yapı Kimyasalları San. Tic. A.Ş.
E-5 Karayolu Üzeri, Şifa Mah. Hükümet Cad.
Tuzla 34941 İstanbul / TÜRKİYE
Tel: +90.216.423 34 33 • Faks: +90.216.423 53 63

Bozüyük Fabrika
Bozüyük Organize San. Böl. 10. Cad.
106 Ada / 5 Parsel No: 3 Bozüyük - BİLEÇİK / TÜRKİYE
Phone: +90.228.314 63 00
Faks: +90.228.314 63 00

Tarsus Fabrika
Huzurkent Tarsus Organize Sanayi Bölgesi
13. Cadde No: 10 Tarsus - MERSİN / TÜRKİYE
Phone: +90.324.676 40 41-676 42 32-676 44 49
Faks: +90.324.676 40 47

TECHNICAL CHARACTERISTICS

PetriProof Membran D 3,5 MM

TEST	EXPERIMENTAL METHOD / CLASSIFICATION	DECLARED VALUES	UNIT	TOLERANCE
Visual Defects	EN 1850-1	No visual defects	-	No visual defects
Length	EN 1848-1	10	m	min (-0,03)
Width	EN 1848-1	1	m	min (-0,02)
Thickness	EN 1849-1	3,5	mm	(+/-) 0,2
Watertightness	EN 1928 (Metod-B 60 kPa)	Successful	kPa	Successful
Flexibility at Low Temperature	EN 1109	-20	°C	min
Tensile Strength (Transverse)	EN 12311-1	600	N/50mm	(-%10, +%50)
Tensile Strength (Longitudinal)	EN 12311-1	800	N/50mm	(-%10, +%50)
Elongation at Break (Transverse)	EN 12311-1	35	%	(-5, +20)
Elongation at Break (Longitudinal)	EN 12311-1	35	%	(-5, +20)
Flow at High Temperatures	EN 1110	100	°C	min
Deviation from the Direction	EN 1848-1	-	mm	Successful
Resistance to Static Load	EN 12730	15	kg	min
Impact Resistance	EN 12691 (Metod-A)	1000	mm	min
Tear Resistance (Transverse)	EN 12310-1	200	N	(+/-) %50
Tear Resistance (Longitudinal)	EN 12310-1	200	N	(+/-) %50
Bending Shear Resistance	EN 12317-1	500	N/50mm	(+/-) %50
Reaction to Fire	EN 13501-1	E	-	E
Dangerous Substances	-	-	-	Not available
Watertightness after Stability Test	EN 1296 - EN 1928	Successful	°C	Successful

PetriProof Membran Y 4 MM

TEST	EXPERIMENTAL METHOD / CLASSIFICATION	DECLARED VALUES	UNIT	TOLERANCE
Visual Defects	EN 1850-1	No visual defects	-	No visual defects
Length	EN 1848-1	10	m	min (-0,03)
Width	EN 1848-1	1	m	min (-0,02)
Thickness	EN 1849-1	4	mm	(+/-) 0,2
Watertightness	EN 1928 (Metod-B 60 kPa)	Successful	kPa	Successful
Flexibility at Low Temperature	EN 1109	-20	°C	min
Tensile Strength (Transverse)	EN 12311-1	600	N/50mm	
Tensile Strength (Longitudinal)	EN 12311-1	800	N/50mm	
Elongation at Break (Transverse)	EN 12311-1	35	%	(-5, +20)
Elongation at Break (Longitudinal)	EN 12311-1	35	%	(-5, +20)
Flow at High Temperatures	EN 1110	100	°C	min
Deviation from the Direction	EN 1848-1	-	mm	Successful
Resistance to Static Load	EN 12730	15	kg	min
Impact Resistance	EN 12691 (Metod-A)	1000	mm	min
Tear Resistance (Transverse)	EN 12310-1	200	N	(+/-) %50
Tear Resistance (Longitudinal)	EN 12310-1	200	N	(+/-) %50
Bending Shear Resistance	EN 12317-1	500	N/50mm	(+/-) %50
Reaction to Fire	EN 13501-1	E	-	E
Dangerous Substances	-	-	-	Not available
Watertightness after Stability Test	EN 1296 - EN 1928	Successful	°C	Successful

PRODUCT PERFORMANCE

TECHNICAL CHARACTERISTICS

PetriProof Membran Y 4,5 MM

TEST	EXPERIMENTAL METHOD / CLASSIFICATION	DECLARED VALUES	UNIT	TOLERANCE
Visual Defects	EN 1850-1	No visual defects	-	No visual defects
Length	EN 1848-1	8	m	min (-0,03)
Width	EN 1848-1	1	m	min (-0,02)
Thickness	EN 1849-1	4,5	mm	(+/-) 0,2
Watertightness	EN 1928	Başarılı	kPa	Başarılı
(Metod-B 60 kPa)	Successful	kPa	Successful	min
Flexibility at Low Temperature	EN 1109	-20	°C	min
Tensile Strength (Transverse)	EN 12311-1	600	N/50mm	(-%10,+%50)
Tensile Strength (Longitudinal)	EN 12311-1	800	N/50mm	(-%10,+%50)
Elongation at Break (Transverse)	EN 12311-1	35	%	(-5, +20)
Elongation at Break (Longitudinal)	EN 12311-1	35	%	(-5, +20)
Flow at High Temperatures	EN 1110	100	°C	min
Deviation from the Direction	EN 1848-1	-	mm	Successful
Resistance to Static Load	EN 12730	15	kg	min
Impact Resistance	EN 12691 (Metod-A)	1000	mm	min
Tear Resistance (Transverse)	EN 12310-1	200	N	(+/-) %50
Tear Resistance (Longitudinal)	EN 12310-1	200	N	(+/-) %50
Bending Shear Resistance	EN 12317-1	500	N/50mm	(+/-) %50
Reaction to Fire	EN 13501-1	E	-	E
Dangerous Substances	-	-	-	Not available

PetriProof Membran Y 4,5 MM PLUS ÇİFT TAŞIYICILI

TEST	EXPERIMENTAL METHOD / CLASSIFICATION	DECLARED VALUES	UNIT	TOLERANCE
Visual Defects	EN 1850-1	No visual defects	-	No visual defects
Length	EN 1848-1	8	m	min (-0,03)
Width	EN 1848-1	1	m	min (-0,02)
Thickness	EN 1849-1	4,5	mm	(+/-) 0,2
Watertightness	EN 1928	Başarılı	kPa	Başarılı
(Metod-B 60 kPa)	Successful	kPa	Successful	min
Flexibility at Low Temperature	EN 1109	-20	°C	min
Tensile Strength (Transverse)	EN 12311-1	800	N/50mm	(-%10,+%50)
Tensile Strength (Longitudinal)	EN 12311-1	1000	N/50mm	(-%10,+%50)
Elongation at Break (Transverse)	EN 12311-1	35	%	(-5, +20)
Elongation at Break (Longitudinal)	EN 12311-1	35	%	(-5, +20)
Flow at High Temperatures	EN 1110	100	°C	min
Deviation from the Direction	EN 1848-1	-	mm	Successful
Resistance to Static Load	EN 12730	15	kg	min
Impact Resistance	EN 12691 (Metod-A)	1000	mm	min
Tear Resistance (Transverse)	EN 12310-1	200	N	(+/-) %50
Tear Resistance (Longitudinal)	EN 12310-1	200	N	(+/-) %50
Bending Shear Resistance	EN 12317-1	500	N/50mm	(+/-) %50
Reaction to Fire	EN 13501-1	E	-	E
Dangerous Substances	-	-	-	Not available

PRODUCT PERFORMANCE

Note: Technical values and application instructions are valid under ambient temperature of 23OC with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.



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Genel Merkez
Koramic Yapı Kimyasalları San. Tic. A.Ş.
E-5 Karayolu Üzeri, Şifa Mah. Hükümet Cad.
Tuzla 34941 İstanbul / TÜRKİYE
Tel: +90.216.423 34 33 • Faks: +90.216.423 53 63

Bozüyük Fabrika
Bozüyük Organize San. Böl. 10. Cad.
106 Ada / 5 Parsel No: 3 Bozüyük - BİLEÇİK / TÜRKİYE
Phone: +90.228.314 63 00
Faks: +90.228.314 63 0

Tarsus Fabrika
Huzurkent Tarsus Organize Sanayi Bölgesi
13. Caddesi No: 10 Tarsus - MERSİN / TÜRKİYE
Phone: +90.324.676 40 41-676 42 32-676 44 49
Faks: +90.324.676 40 47